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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/160,068	09/24/98	MILLINGTON	J 60.314-039

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EXAMINER

TWEEL JR, J

ART UNIT

PAPER NUMBER

2736

DATE MAILED:

07/18/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.  
09/160,068

Applicant(s)

Millington

Examiner

John Tweel

Group Art Unit  
2736



☒ Responsive to communication(s) filed on May 1, 2000

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claim

☒ Claim(s) 1-11 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☒ Claim(s) 7-11 is/are allowed.

☒ Claim(s) 1-6 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s) \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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1. This Office action is in response to the amendment filed 5/1/00.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 1-6 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 3211591 in view of Japanese patent 6034382.

The display method taught by 3211591 includes a palette having a plurality of colors wherein a plurality of colors is displayed at the pixels. The lines that are displayed are “un-jagged” in relation to the angle of the displayed line on the background color wherein a first color is displayed and different shades of this first color are displayed depending on the area ratio through which the line graphic is to pass. The intensity of the color saturation is proportional to a portion of the pixel not lying within the ideal road line. However, this system is not explicitly suited for a road map in a navigation system.

The on-vehicle display device taught by 6034382 includes an anti-aliasing processing for a road map display system on a vehicle. Like the primary reference, it too displays a line wherein the color brightness is adjusted depending on the location of a line graphic in the display.

This reference is plain evidence that an anti-aliasing system has been in use on vehicle display systems for many years. It would have been obvious to one of ordinary skill in the art at

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the time the invention was made to include an anti-aliasing system of the primary reference in a vehicle display system for the purpose of using a well known and useful display system in a well known and perfectly suited environment such as the vehicle display system of the secondary reference. As for the condition that the background color be displayed if a pixel area crossing the line is less than a predetermined threshold, this property would seem to naturally follow from the fact that a line graphic must end in intensity at some point along the display from where the ideal line is located. This common sense property does not appear patentable in light of this logic.

### *Response to Arguments*

#### *Argument 1:*

“In Japanese Patent No. 6034382, the screen values for the color are read out of the video memory...and then the palette is changed to effect the anti-aliasing. In contrast, all of the claims of the present application require that the colors in the palette are utilized to provide the anti-aliasing, rather than changing the colors in the palette.”

4. Applicant's arguments filed 5/1/00 have been fully considered but they are not persuasive.

#### *Response to Argument 1:*

Claim 1 mentions nothing about providing every usable shade of every color in the palette at the beginning of the process. Claim 1 merely states “providing a palette having a plurality of

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colors". Moreover, the condition stated in dependent claim 2, "providing a plurality of shades of each of the colors in the palette", does not necessarily mean that the shades are provided at the beginning of the process. Provision in this case may simply mean manipulation of the colors in the palette at a later time.

5. Claims 7-11 are allowed.

6. The following is a statement of reasons for the indication of allowable subject matter:

Both allowed independent claims speak to the heart of the unobvious subject matter, that is, "a palette of a plurality of intensities of each of a plurality of colors". This translates into providing each usable intensity of each color at the outset and no manipulation at a later time. This is considered novel and unobvious in light of the prior art.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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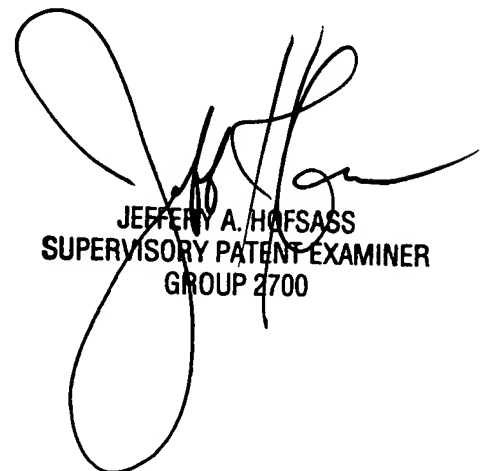
CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication should be directed to Examiner John Tweel at telephone number (703) 308 7826. The examiner can normally be reached on Monday-Fridays, 8:30a-5:00p.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass, can be reached on (703) 305 4717. The fax phone number for this group is (703) 308 6743.

John Tweel

July 16, 2000



JEFFERY A. HOFSSASS  
SUPERVISORY PATENT EXAMINER  
GROUP 2700